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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/321,090	05/28/1999	RICHARD L. FRANK	ORA99-03-(OI	5972

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EXAMINER

BENSON, WALTER

ART UNIT PAPER NUMBER

2858

DATE MAILED: 05/22/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/321,090

Applicant(s)

Frank et al.

Examiner

Walter Benson

Art Unit

2858



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Mar 12, 2002
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

Art Unit: 2858

FINAL ACTION

1. Amendment A, received on 3/12/02, has been entered into record. In this amendment, claims 1-5 have been amended, and claims 6-21 have been added.
2. Claims 1-21 are now pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

4. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by MacKenzie et al. (US Patent No. 6,363,495 and MacKenzie hereinafter).

Art Unit: 2858

5. As to claims 1, 4, 5, 19, 20, and 21 MacKenzie discloses an apparatus, method and computer program product [col. 18, lines 40-51] for managing membership of nodes in a computer network cluster, the method comprising:

a network infrastructure for supporting a plurality of nodes in a network cluster (Fig. 1);

a storage device separated from the network infrastructure and interconnectable to a plurality of nodes (106, Fig. 1; and col. 7, line 21);

a message location on a sharable storage device (col. 11, lines 19-22);

a node interconnected with the storage device (Fig. 3);

a manager mechanism to grant membership in the network cluster to the node based on the node having access to the storage device, using the message location (col. 17, lines 30-56).

6. As to claims 2, 9, and 14, MacKenzie discloses an apparatus, method and computer program product [col. 18, lines 40-51] for managing membership of nodes in a computer network cluster, the method further comprising:

revoking membership of the node in the network cluster if the node ceases to have access to the sharable storage device (col. 4, lines 58-59).

Art Unit: 2858

7. As claim 3, 10, and 15, MacKenzie discloses an apparatus, method and computer program product [col. 18, lines 40-51] for managing membership of nodes in a computer network cluster, the method further comprising:

ceasing operation of the network cluster if no node has access to the shareable storage device (col. 11, lines 42-47).

8. As to claims 6, 11, and 16, MacKenzie discloses a system for managing membership of nodes in a computer network cluster, comprising:

where granting membership comprises, from the node, accessing a message location in the sharable storage device (col. 8, lines 55-60).

9. As to claims 7, 12, and 17, MacKenzie discloses a system for managing membership of nodes in a computer network cluster, comprising:

where the message location identifies the cluster by identifying at least one physical storage device from the sharable storage device that is shared by the cluster members (col. 9, lines 16-20).

10. As to claims 8, 13, and 18, MacKenzie discloses a system for managing membership of nodes in a computer network cluster, comprising:

Art Unit: 2858

where granting membership comprises accessing each identified physical storage device
(col. 9, lines 22-24).

Response to Arguments

11. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

12. In the remarks, applicant argues in substance :

(1). That "Wipfel does not teach or suggest a manager mechanism to grant membership in the network cluster to the node having access to the storage device".

13. Examiner respectfully traverses applicant's remarks:

As to point (1), see paragraph above, MacKinzie does teach a manager mechanism to grant membership in the network cluster to the node based on the node having access to the storage device, using the message location (col. 17, lines 30-56)

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2858

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Prior Art Made of Record

15. A. Silton et al. (US Patent No. 6,327,252) discloses a method and apparatus for improved cluster administration;

B. Alfieri et al. (US Patent No. 5,666,486) discloses a method and apparatus for multiprocessor cluster membership management.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2858

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter Benson whose telephone number is (703) 306-4525. The examiner can normally be reached on Monday to Thursday and alternate Fridays from 6:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le, can be reached on (703) 308-0750. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

Walter Benson *WB*
Patent Examiner

May 17, 2002

N. Le
N. Le
Supervisory Patent Examiner
Technology Center 2800